

ManHunt Smart Agent for Dragon™ 6.0

Installation Guide



ManHunt Smart Agent for Dragon 6.0 Installation Guide

The software described in this book is furnished under a license agreement and may be used only in accordance with the terms of the agreement.

Copyright Notice

Copyright © 2003 Symantec Corporation.

All Rights Reserved.

Any technical documentation that is made available by Symantec Corporation is the copyrighted work of Symantec Corporation and is owned by Symantec Corporation.

NO WARRANTY. The technical documentation is being delivered to you AS-IS, and Symantec Corporation makes no warranty as to its accuracy or use. Any use of the technical documentation or the information contained therein is at the risk of the user. Documentation may include technical or other inaccuracies or typographical errors. Symantec reserves the right to make changes without prior notice.

No part of this publication may be copied without the express written permission of Symantec Corporation, 20330 Stevens Creek Blvd., Cupertino, CA 95014.

Trademarks

Symantec, the Symantec logo, and Norton AntiVirus are U.S. registered trademarks of Symantec Corporation. LiveUpdate, Symantec AntiVirus, Symantec Enterprise Security Architecture, and Symantec Security Response are trademarks of Symantec Corporation.

Other brands and product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Printed in the United States of America.

10 9 8 7 6 5 4 3 2 1

SYMANTEC SOFTWARE LICENSE AGREEMENT (SMART AGENT)

SYMANTEC CORPORATION AND/OR ITS SUBSIDIARIES ("SYMANTEC") IS WILLING TO LICENSE THE SOFTWARE TO YOU AS AN INDIVIDUAL, THE COMPANY, OR THE LEGAL ENTITY THAT WILL BE UTILIZING THE SOFTWARE (REFERENCED BELOW AS "YOU OR YOUR") ONLY ON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS OF THIS LICENSE AGREEMENT. READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE. THIS IS A LEGAL AND ENFORCEABLE CONTRACT BETWEEN YOU AND THE LICENSOR. BY OPENING THIS PACKAGE, BREAKING THE SEAL, CLICKING ON THE "AGREE" OR "YES" BUTTON OR OTHERWISE INDICATING ASSENT ELECTRONICALLY, OR LOADING THE SOFTWARE, YOU AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS AND CONDITIONS, CLICK ON THE "I DO NOT AGREE", "NO" BUTTON, OR OTHERWISE INDICATE REFUSAL AND MAKE NO FURTHER USE OF THE SOFTWARE.

1. LICENSE.

The software and documentation that accompanies this license (collectively the "Software") is the proprietary property of Symantec or its licensors and is protected by copyright law. While Symantec continues to own the Software, You will have certain rights to use the Software after Your acceptance of this license. This license governs any releases, revisions, or enhancements to the Software that the Licensor may furnish to You. Except as may be modified by an applicable Symantec license certificate, license coupon, or license key (each a "License Module") that accompanies, precedes, or follows this license, Your rights and obligations with respect to the use of this Software are as follows:

YOU MAY:

- A. use that number of copies of the Software as have been licensed to You by Symantec under a License Module for Your internal business purposes. Your License Module shall constitute proof of Your right to make such copies. If no License Module accompanies, precedes, or follows this license, You may make one copy of the Software You are authorized to use on a single machine.
- B. make one copy of the Software for archival purposes, or copy the Software onto the hard disk of Your computer and retain the original for archival purposes;
- C. use each licensed copy of the Software on a single central processing unit; and
- D. after written consent from Symantec, transfer the Software on a permanent basis to another person or entity, provided that You retain no copies of the Software and the transferee agrees to the terms of this license.

YOU MAY NOT:

- A. copy the printed documentation which accompanies the Software;
- B. sublicense, rent or lease any portion of the Software; reverse engineer, decompile, disassemble, modify, translate, make any attempt to discover the source code of the Software, or create derivative works from the Software;
- C. use a previous version or copy of the Software after You have received a disk replacement set or an upgraded version. Upon upgrading the Software, all copies of the prior version must be destroyed;
- D. use a later version of the Software than is provided herewith unless You have purchased corresponding maintenance and/or upgrade insurance or have otherwise separately acquired the right to use such later version;

- E. use, if You received the software distributed on media containing multiple Symantec products, any Symantec software on the media for which You have not received a permission in a License Module; nor
- F. use the Software in any manner not authorized by this license.

2. CONTENT UPDATES:

Certain Software utilize content which is updated from time to time (including but not limited to the following Software: antivirus software utilize updated virus definitions; content filtering software utilize updated URL lists; some firewall software utilize updated firewall rules; and vulnerability assessment products utilize updated vulnerability data; these updates are collectively referred to as "Content Updates"). You shall have the right to obtain Content Updates for any period for which You have purchased maintenance, except for those Content Updates which Symantec elects to make available by separate paid subscription, or for any period for which You have otherwise separately acquired the right to obtain Content Updates. Symantec reserves the right to designate specified Content Updates as requiring purchase of a separate subscription at any time and without notice to You; provided, however, that if You purchase maintenance hereunder that includes particular Content Updates on the date of purchase, You will not have to pay an additional fee to continue receiving such Content Updates through the term of such maintenance even if Symantec designates such Content Updates as requiring separate purchase. This License does not otherwise permit Licensee to obtain and use Content Updates.

3. LIMITED WARRANTY:

Symantec warrants that the media on which the Software is distributed will be free from defects for a period of sixty (60) days from the date of delivery of the Software to You. Your sole remedy in the event of a breach of this warranty will be that Symantec will, at its option, replace any defective media returned to Symantec within the warranty period or refund the money You paid for the Software. Symantec does not warrant that the Software will meet Your requirements or that operation of the Software will be uninterrupted or that the Software will be error-free.

THE ABOVE WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE AND COUNTRY TO COUNTRY.

4. DISCLAIMER OF DAMAGES:

SOME STATES AND COUNTRIES, INCLUDING MEMBER COUNTRIES OF THE EUROPEAN ECONOMIC AREA, DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE BELOW LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW AND REGARDLESS OF WHETHER ANY REMEDY SET FORTH HEREIN FAILS OF ITS ESSENTIAL PURPOSE, IN NO EVENT WILL SYMANTEC BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES, INCLUDING ANY LOST PROFITS OR LOST DATA ARISING OUT OF THE USE OR INABILITY TO USE THE SOFTWARE EVEN IF SYMANTEC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN NO CASE SHALL SYMANTEC'S LIABILITY EXCEED THE PURCHASE PRICE FOR THE SOFTWARE. The disclaimers and

limitations set forth above will apply regardless of whether You accept the Software.

5. U.S. GOVERNMENT RESTRICTED RIGHTS:

RESTRICTED RIGHTS LEGEND. All Symantec products and documentation are commercial in nature. The software and software documentation are "Commercial Items", as that term is defined in 48 C.F.R. section 2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation", as such terms are defined in 48 C.F.R. section 252.227-7014(a)(5) and 48 C.F.R. section 252.227-7014(a)(1), and used in 48 C.F.R. section 12.212 and 48 C.F.R. section 227.7202, as applicable. Consistent with 48 C.F.R. section 12.212, 48 C.F.R. section 252.227-7015, 48 C.F.R. section 227.7202 through 227.7202-4, 48 C.F.R. section 52.227-14, and other relevant sections of the Code of Federal Regulations, as applicable, Symantec's computer software and computer software documentation are licensed to United States Government end users with only those rights as granted to all other end users, according to the terms and conditions contained in this license agreement. Manufacturer is Symantec Corporation, 20330 Stevens Creek Blvd., Cupertino, CA 95014, United States of America.

6. EXPORT REGULATION:

Export, re-export of this Software is governed by the laws and regulations of the United States and import laws and regulations of certain other countries. Export or re-export of Software to any entity on the Denied Parties List and other lists promulgated by various agencies of the United States Federal Government is strictly prohibited.

7. GENERAL:

If You are located in North America or Latin America, this Agreement will be governed by the laws of the State of California, United States of America. Otherwise, this Agreement will be governed by the laws of England. This Agreement and any related License Module is the entire agreement between You and Symantec relating to the Software and: (i) supersedes all prior or contemporaneous oral or written communications, proposals and representations with respect to its subject matter; and (ii) prevails over any conflicting or additional terms of any quote, order, acknowledgment or similar communications between the parties. This Agreement shall terminate upon Your breach of any term contained herein and You shall cease use of and destroy all copies of the Software. The disclaimers of warranties and damages and limitations on liability shall survive termination. Software and documentation is delivered Ex Works California, U.S.A. or Dublin, Ireland respectively (ICC INCOTERMS 2000). This Agreement may only be modified by a License Module which accompanies this license or by a written document which has been signed by both You and Symantec. Should You have any questions concerning this Agreement, or if You desire to contact Symantec for any reason, please write to: (i) Symantec Customer Service, 555 International Way, Springfield, OR 97477, U.S.A., (ii) Symantec Customer Service Center, PO BOX 5689, Dublin 15, Ireland, or (iii) Symantec Customer Service, 1 Julius Ave, North Ryde, NSW 2113, Australia.

Contents

ManHunt Smart Agent for Dragon™ 6.0	1
System requirements	1
Installation overview	2
Configuring Dragon	2
Installing the MSA for Dragon 6.0	3
Upgrading to the MSA for Dragon 6.0	5
Installing the Dragon meta data	6
Configuring Symantec ManHunt	7
Configuring the MSA for Dragon	8
Changing the EDP passphrase	11
Starting and stopping the MSA	12
Viewing Dragon events in the ManHunt console	12
Uninstalling the MSA	13

ManHunt Smart Agent for Dragon™ 6.0

The ManHunt Smart Agent (MSA) enables Symantec ManHunt to receive events in real time from a Dragon™ 6.0 management console, convert these events into the ManHunt event format, and then send the events to a ManHunt node for aggregation and correlation with all other ManHunt events. The MSA also enables you to set response policies for Dragon events in the ManHunt Policy Configuration interface. (See *Symantec ManHunt Administration Guide* for instructions on creating response policies.)

System requirements

The MSA for Dragon 6.0 requires the following:

- Symantec ManHunt 2.2 patch 2 installed on Solaris 8 SPARC or Intel, or Symantec ManHunt 3.0 installed on Solaris 8 SPARC or Intel, or Red Hat® Linux® 8.0.

Note: Patch 2 is required for ManHunt 2.2 to enable you to properly view event information from MSAs. You can download the patch at:

http://www.symantec.com/techsupp/enterprise/products/manhunt/manhunt_2.2/files.html.

You can ascertain which ManHunt patches have been installed by looking in the <ManHunt_inst_root>/patchlevel file. The content of the patchlevel file will consist of or include the file named `1:2.220.02:ManHunt_patch_2.220.02` if you have patch 2 installed. If you do not have patch 2 installed, you must download and install it, even if you have installed patch 3. Patch 1 will not affect patch 2. If you do not have a patchlevel file, no patches have been installed.

- Dragon 6.0 installed on either Solaris 8 SPARC or Intel, or Red Hat® Linux® 8.0 (with kernel version 2.4).

Installation overview

The MSA for Dragon 6.0 can be set up in seven basic steps.

To set up the MSA for Dragon

- 1 Ensure that you have installed Symantec ManHunt 2.2 patch 2, or Symantec ManHunt 3.0.
- 2 Configure Dragon.
See [“Configuring Dragon”](#) on page 2.
- 3 Install or upgrade the MSA for Dragon.
See [“Installing the MSA for Dragon 6.0”](#) on page 3, or [“Upgrading to the MSA for Dragon 6.0”](#) on page 5.
- 4 Install the Dragon meta data on the ManHunt node.
See [“Installing the Dragon meta data”](#) on page 6.
- 5 Create an external sensor node for the MSA for Dragon.
See [“Configuring Symantec ManHunt”](#) on page 7.
- 6 Configure ManHunt to receive events from the MSA for Dragon.
See [“Configuring the MSA for Dragon”](#) on page 8.
- 7 Start the MSA for Dragon.
See [“Starting and stopping the MSA”](#) on page 12.

Configuring Dragon

Use the Dragon web interface to configure the Dragon appliance, or Event Flow Processor (EFP), to send SNMP traps to the IP address of the MSA host using Alarmtool.

Note: The ManHunt console will receive any event data sent by Dragon. Therefore, you may want to tune Dragon policies and signatures to avoid sending large amounts of duplicate data to ManHunt.

To configure Alarmtool to send traps to the MSA

- 1 Click **Alarmtool** on the Dragon console.
- 2 Click **Add** on the Alarmtool Alert List.
- 3 Type the name of the alert against **Alert Name** in the Alarmtool Alert Wizard.
- 4 Select **realtime** as the Alert Type.

- 5 Enter **10** as the Summary interval in seconds, then click **Submit**.

Note: The Summary interval field is the only configurable field.

The next Alarmtool Wizard screen says, `Select Signatures` to alert on.

- 6 Click **Next**.
- 7 Choose **SNMP** as the Notification Method.

The next Alarmtool Wizard screen says, `Fill out notification configuration`.

- 8 Fill in the following fields, then press **Enter**:

```
address: <IP address where the MSA listens for SNMP traps>
port:162
oid:1.3.6.1.4.1.4471
community: public
specific-type: 100
message:%DATE% %TIME% %SIP% %DIP% %NAME% %PROTO% %SPORT% %DPORT%
```

Note: The address prompt requires the IP address where the MSA listens for SNMP traps. You must also enter the `message:` format exactly as it appears. No values can be added or removed, as they are required to match with the ManHunt event format for Dragon.

- 9 Click **Finish**.

See <http://www.enterasys.com> for further information about Alarmtool configuration.

Installing the MSA for Dragon 6.0

You can deploy the MSA for Dragon in either of two deployment modes:

- Install the MSA on the ManHunt node.
- Install the MSA on a dedicated host (recommended).

Note: The MSA can not be installed on the Dragon host.

In either deployment, the MSA listens for Dragon SNMP traps on port 162 by default. The MSA converts the SNMP traps into the ManHunt event format, and sends the events to ManHunt over Event Dispatch Protocol (EDP). During the MSA installation, you specify the IP address of the ManHunt node that will receive the event data from the MSA. The MSA and ManHunt node

communicate over Event Dispatch Protocol (EDP). To do so, they must share an EDP passphrase to ensure secure and encrypted communication.

Note: The Event Dispatch Protocol for Symantec ManHunt 2.2 patch 2 has an event rate limitation of 30 events per second, and the Event Dispatch Protocol for Symantec ManHunt 3.0 has an event rate limitation of 250 events per second. Please note the ManHunt event rate limit when planning multiple MSA deployments.

Note: You must be logged in as root to run the install script. Also, you can view the ManHunt version number, and third party MSA product name and version number in the installation log, which is located in the `<MSA_install_dir>/install` directory.

To install the MSA for Dragon

- 1 Place the CD in the CD-ROM drive; mount the drive if necessary.
- 2 Change to the CD directory and enter the install command:

```
cd Dragon60MSA_MH<version>/install/<platform>
```

where **<version>** is 22 or 30, and **<platform>** is linux, solaris8-intel, or solaris8-sparc.

```
./install.sh
```
- 3 Type a directory where you want to install the MSA, or accept the default `/usr/msadragon` directory, then press **Enter**.
- 4 Type a directory to which the MSA will write the operational log files, or accept the default `<MSA_install_dir>/logs` directory, then press **Enter**.

Note: The MSA cannot start properly if the log file approaches a certain size (2-3 Gigs depending on the system). You can delete or rename the log file to correct the problem.

- 5 Type the ManHunt host IP address, then press **Enter**.
This is the IP address of the ManHunt node that will accept the Dragon event data.
- 6 Type the Event Dispatch Protocol (EDP) port number used by this ManHunt node, or accept the default port number of 1333, then press **Enter**.

This port number must match the value for the EDP Port Number configuration parameter used by the ManHunt node that will receive the Dragon event data.

- 7 Type the EDP passphrase, then press **Enter**.

The MSA for Dragon communicates with the ManHunt node over EDP. In order to enable ManHunt to receive event data from the MSA for Dragon, they must share an EDP passphrase. The passphrase must be 8 to 64 characters long, inclusive.

Note: This must be identical to the passphrase that you enter in the ManHunt console when you create the external sensor node for the MSA for Dragon. See [“Changing the EDP passphrase”](#) on page 11.

- 8 Re-enter the EDP passphrase, then press **Enter**.
- 9 Enter the path to the Dragon alerts file, or accept the default `/var/log/dragon/alert` directory. Enter the complete path if you do not accept the default path. If the file does not already exist, the install script will create it.
- 10 Change to the installation directory, and run the start command to start the MSA for Dragon:

```
<MSA_install_dir>/start
```

Upgrading to the MSA for Dragon 6.0

During the upgrade process, you can choose to either retain your current MSA configuration, or remove it completely and do a fresh install.

Note: You must be logged in as root to run the install script. Also, you can view the ManHunt version number, and third party MSA product name and version number in the installation log, which is located in the

`<MSA_install_dir>/install` directory.

To upgrade to the MSA for Dragon 6.0

- 1 Place the CD in the CD-ROM drive; mount the drive if necessary.

- 2 Change to the CD directory and enter the install command:

```
cd Dragon60MSA_MH<version>/install/<platform>
```

where <version> is 22 or 30, and <platform> is linux, solaris8-intel, or solaris8-sparc.

```
./install.sh
```

- 3 The script will detect the existing MSA for Dragon, and ask if you would like to install the MSA for Dragon 6.0, or upgrade to the MSA for Dragon 6.0.
 - If you wish to remove your existing MSA for Dragon configuration and perform a fresh installation, press **Enter** to continue.
 - If you wish to upgrade and retain your existing MSA for Dragon configuration, type `upgrade`, then press **Enter**.
- 4 Type the complete path to the existing install directory for the MSA for Dragon, then press **Enter**.
 - If you chose to perform a fresh installation in [Step 3](#), the existing MSA for Dragon will then uninstall itself. When it has finished uninstalling, the MSA for Dragon 6.0 installation will begin. Proceed now to [“Installing the MSA for Dragon 6.0”](#) on page 3.
 - If you chose to upgrade and maintain your existing MSA for Dragon configuration in [Step 3](#), please proceed to [Step 5](#).
- 5 Type the complete path to the existing MSA for Dragon log directory, then press **Enter**.

Note: The MSA cannot start properly if the log file approaches a certain size (2-3 Gigs depending on the system). You can delete or rename the log file to correct the problem.

- 6 The existing MSA for Dragon will now uninstall itself, then upgrade itself to the MSA for Dragon 6.0. You will not be prompted for any more questions. The upgrade install directory for the MSA for Dragon 6.0, as well as the `dragon2mh.conf`, `logs/dragon2mh.log`, and installation log files, will be retained.
- 7 Change to the installation directory and run the start command to start the MSA for Dragon:

```
<MSA_install_dir>/start
```

Installing the Dragon meta data

You must install the Dragon meta data on the ManHunt node that you log into from the administration console, typically the primary master node. This is done

in order for you to be able to create the MSA for Dragon external sensor node, create response policies for Dragon events, and display Dragon event data in the ManHunt console.

In addition, you must install this meta data on the ManHunt node that will receive the Dragon event data from the MSA for Dragon (if different from the master node).

Note: You must be logged in as root to install the Dragon meta data.

To install the Dragon meta data

- 1 Place the CD in the CD-ROM drive; mount the volume if necessary.
- 2 Change to the CD directory and enter the install command:

```
cd Dragon60MSA_MH<version>/install/<platform>
```

where <version> is 22 or 30, and <platform> is linux, solaris8-intel, or solaris8-sparc.

```
./install-md.sh
```
- 3 Ensure that the meta data file to be installed begins with 'dragon' and ends with the '.md' file extension. If you have old meta data files, you can choose to either delete or archive them. Do one of the following:
 - Type `delete` and press **Enter** to delete the old meta data files.
 - Type `archive` and press **Enter** to archive the old meta data files.
- 4 ManHunt must be restarted to incorporate the new meta data. Type `y` and press **Enter** when prompted to restart ManHunt.
If this is the ManHunt node used for administration, quit and restart any administration consoles connected to the node to enable the consoles to incorporate the new meta data.

Configuring Symantec ManHunt

To enable communication between ManHunt and the MSA for Dragon, and to be able to set ManHunt response policies for Dragon events, you must create an external sensor node in the ManHunt topology tree for the machine on which the MSA for Dragon is installed.

To add an external sensor node

- 1 Open the ManHunt console.

- 2 Right-click **External Sensors** in the topology tree, and click **Add External Sensor** from the pop-up menu.
The **Add External Sensor** dialog appears.
- 3 In **Add External Sensor**, enter a name of up to 39 characters for the device.
This name will appear in the topology tree.
- 4 Enter an optional customer ID.
This ID is a way of labeling the devices, for example, to describe the physical location of the device.
- 5 Enter the IP address for the machine on which you installed the MSA for Dragon.
- 6 Select **Dragon** from **Smart Agent Type**.

Note: The Dragon Smart Agent type only appears if you have installed the Dragon meta data.

- 7 Select the ManHunt node that will receive event data from the MSA for Dragon.

Note: You must select the ManHunt node before setting the EDP passphrase, as ManHunt sets the EDP passphrase for the ManHunt node that is selected in the Event Receiver box at the time that you enter the EDP passphrase.

- 8 Set the EDP passphrase.
This passphrase must be the same passphrase you entered during the MSA for Dragon installation process.
- 9 Enter a description of the MSA for Dragon.
This description will be displayed on the main console screen when this external sensor node is selected in the topology tree.
- 10 Click **OK**, then click **Save Changes** to save your topology tree changes.

Configuring the MSA for Dragon

The MSA installation process creates a configuration file called `dragon2mh.conf` in the `<MSA_install_dir>/etc` directory. This file contains instructions and parameters for MSA operation and for connecting to the ManHunt node. These parameters are described in Table 1-1.

MSA Configuration File

The configuration file is broken down into sections with section headers enclosed in brackets []. The first section is called [MSA] and contains most of the configuration parameters. The second section is called [Snmp] and can contain the SnmpTrapPort parameter.

The following is a sample configuration file.

```
[MSA]

ManHuntHostIPAddr = 10.0.0.34:1333

EDPSecret = DokdYjNU732mnDuj

MSALogDir = /usr/msadragon/logs

MSALogLevel = 5

EventDefinitionFile = /usr/msadragon/etc/dragon2mh.evtdef

[Snmp]

SnmpTrapPort = 185
```

Table 1-1 lists all editable parameters. If you edit any of the configuration parameter values, you must restart the MSA application. See [“Starting and stopping the MSA”](#) on page 12.

Table 1-1 MSA Configuration File Parameters

Parameter	Description
EDPSecret	This is the value for EDPSecret is the encrypted form of the EDP passphrase, and is set during the MSA installation process. Do not attempt to edit this parameter from within the configuration file. This parameter is required.
EventDefinitionFile	This is the path to the event definition file. The MSA conversion engine uses instructions contained in the event definition file to convert Dragon events into ManHunt events. The event definition file is installed in the <MSA_install_dir>/etc directory. This parameter is required.

Table 1-1 MSA Configuration File Parameters

Parameter	Description
EventSendRate	<p>This is an integer specifying the maximum number of events per second that can be passed to the ManHunt node. Valid values are 10-250 for ManHunt 3.0, and 10-30 for ManHunt 2.2. If this parameter is not specified in the configuration file, the default value is 10 events per second. To change the default value for this parameter, you must add it to the [MSA] section.</p> <p>Note: The MSA cannot start properly if the log file approaches a certain size (2-3 Gigs depending on the system). You can delete or rename the log file to correct the problem.</p>
EventSourceFile	This is the file from which to read Dragon alerts. This parameter is required.
ManHuntHostIPAddr	<p>This is the IP address of the ManHunt node to which Dragon events are sent. The format is <code>IP address:port</code>. The port must be the port on which ManHunt is configured to receive events. The default port is 1333. If you change the EDP Port Number parameter on the ManHunt node, be sure to change the value in the MSA configuration file to match, and vice versa. This parameter is required.</p>
MaxEventsinCache	This is an integer specifying the maximum number of events allowed in the cache before the oldest event is dropped. Valid values are 500-100,000. If this parameter is not specified in the configuration file, the default value is 3000. To change the default value for this parameter, you must add it to the [MSA] section.
MSALogDir	This is the directory to which the MSA should write its log file. The default value is <code><MSA_install_dir>/logs</code> . If you delete this parameter from the configuration file, then the default log directory becomes <code>/tmp</code> .
MSALogLevel	This is an integer specifying the level of logging that the MSA uses. Possible values are from 1 to 35, with 35 being the most verbose. The default value is 5. If you raise the log level above 5, the performance of the MSA for Dragon may be negatively impacted.
SNMPListenIP	This is a valid IP address to which the MSA machine is bound.

Table 1-1 MSA Configuration File Parameters

Parameter	Description
SnmpTrapPort	This is an argument that allows SNMP traps to be collected on a port other than the default, which is port 162.

Note: It is possible to install and run two SNMP-based MSAs on the same machine. However, that machine must have more than one IP address. Each MSA will have a separate .conf file, in which each SNMPListenIP parameter must be set to a different value.

Changing the EDP passphrase

To change the EDP passphrase on the ManHunt node, edit the external sensor topology tree node. The EDP passphrase on the ManHunt node must match the EDP passphrase on the MSA for Dragon machine. Therefore, if you change the passphrase on the ManHunt node, you must also change the passphrase on the MSA for Dragon machine by running the `changesecret` command located in the `<MSA_install_directory>/bin` directory.

To change the EDP passphrase on the ManHunt node

- 1 Log into the administration console.
- 2 Right-click the appropriate external sensor node, and select **Edit Device**. The **Edit External Sensor** dialog appears.
- 3 In **Edit External Sensor**, click **Set EDP Passphrase**.
- 4 In **EDP Passphrase**, enter the new passphrase the ManHunt node will use to communicate with the MSA for Dragon.
The passphrase must be at least 8 characters long.
- 5 Re-enter the passphrase for confirmation.
- 6 Click **OK**.
- 7 Click **OK** in the **Edit External Sensor** dialog box.
- 8 Go to **Topology**, and click **Save Changes**.

To change the EDP passphrase on the MSA for Dragon machine

- 1 Go to the `<MSA_install_dir>/bin` directory.

- 2 Enter the following command:
`changesecret <MSA_install_dir>/etc/dragon2mh.conf`
- 3 Enter the old passphrase.
- 4 Enter the new passphrase.
The passphrase must be at least 8 characters long.
- 5 Re-enter the new passphrase.
- 6 Restart the MSA application with the stop and start commands.
See [“Starting and stopping the MSA”](#) on page 12.

Note: If you have forgotten the old passphrase, you can delete the EDPSecret line from the configuration file <MSA_install_dir>/etc/dragon2mh.conf and then run changesecret again. The script will not prompt you for the old passphrase once the passphrase line is removed. See [“Configuring the MSA for Dragon”](#) on page 8.

Starting and stopping the MSA

The MSA installer creates startup scripts in the system startup directories /etc/init.d and /etc/rc2.d to automatically start the MSA for Dragon when the machine is rebooted. In addition, start and stop scripts are provided in the <MSA_install_dir>. You must be logged in as root to run these scripts, as they are installed in the root MSA install directory. Simply run the start or stop commands from <MSA_install_dir> to start or stop the MSA.

Viewing Dragon events in the ManHunt console

You can view events from the MSA for Dragon just as you would view any other events in the ManHunt console. For more information about viewing events in the ManHunt console, see the *Symantec ManHunt Administration Guide*.

To identify events as originating from Dragon

- 1 From the ManHunt console **Event View** window, expand the **Base Type** field.
- 2 Dragon events have a **Base Type** in the form of

```
DRGN|DRGN_<unique numerical identifier>
```

- 3 The **Type** field in the ManHunt console contains a short description of the Dragon event.
To see more information, double click on the event and click the **Advanced** tab.

Uninstalling the MSA

The MSA for Dragon can be uninstalled. It is not necessary to uninstall the Dragon meta data. However, if you require more space on the disk after uninstalling the MSA for Dragon, you can remove the meta data manually by deleting the <ManHunt_install_directory>/md/dragon.md file.

To uninstall the MSA for Dragon

- 1 Run the following command:

```
<MSA_install_dir>/install/uninstall.sh
```
- 2 The script will ask if you wish to continue uninstalling the MSA. Type **y** and press **Enter** to uninstall the MSA for Dragon.

